**Evan McKee**

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SCADA Control Systems / Automation Engineer with 2 years of graduate  
level experience in machine learning software development; reinforcement  
learning focused. 4 years of Python proficiency in industrial applications.

**Experience**

**Ace Engineering, Houston, TX**

**Control Systems Engineer II (January 2020-Present)**

Designed and integrated frontend SCADA HMI screens for liquids pipeline and liquids terminals.

* Wrote the backend for the Glue App, an internal project integration tool used companywide.
* Created a Python script which converted ladder logic into Cause & Effect documents, reducing development time by 80%.
* Taught beginner Python workshops remotely, open to any interested EN engineer.
* Programmed PLCs using ladder logic and commissioned their installation in the field.

**Oak Ridge National Laboratory, Oak Ridge, TN**

**Reinforcement Learning Graduate Research Engineer (May 2018-December 2019)**

Developed, deployed, and field tested an AI-controlled HVAC system into a testbed home.

* Used deep reinforcement learning to minimize cooling cost while preserving user comfort.
* Responsible for coding the controls algorithm and for optimizing State, Action, and Reward design.
* Contributed roughly 7000 lines of Python code during project execution and analysis.
* Collaborated with a team of 8 post-doctorate researchers to realize a 30-40% reduction in cost of energy over a traditional fixed-setpoint HVAC system.

**Education**

**The University of Tennessee, Knoxville, TN (2015-2019)**

**M.S. in Electrical Engineering, 3.8/4.0 GPA**

Thesis: Deep Reinforcement Learning for Real-Time Residential HVAC Control

**B.S. in Electrical Engineering, Magna Cum Laude, 3.7/4.0 GPA**

**Lipscomb University, Nashville, TN (2006-2010)**

**B.B.A in Marketing, 3.5/4.0 GPA**

**Skills**

**Job Skills**

Python, Q-Learning, TensorFlow / Keras, Git / Subversion, Docker, MQTT, SQL, PLC Programming

**Self Taught**

Supervised / Unsupervised Machine Learning, DevOps, Data Analysis, AWS